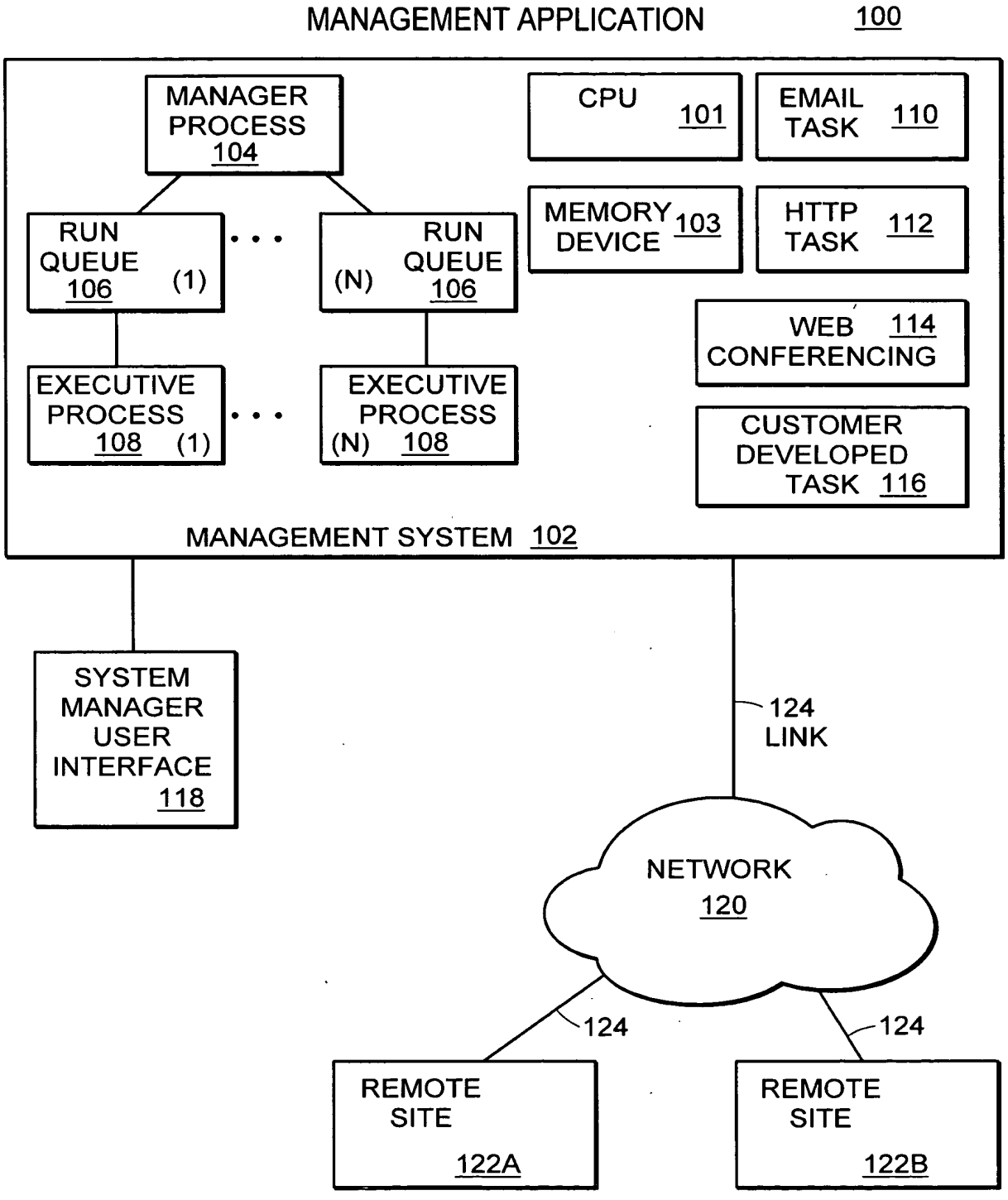
MANAGEMENT APPLICATION 100
MANAGER PROCESS 104
CPU 101
EMAIL TASK 110
RUN QUEUE 106 (1)
RUN QUEUE 106 (N)
MEMORY DEVICE 103
HTTP TASK 112
WEB CONFERENCING 114
EXECUTIVE PROCESS 108 (1)
EXECUTIVE PROCESS 108 (N)
CUSTOMER DEVELOPED TASK 116
MANAGEMENT SYSTEM 102
SYSTEM MANAGER USER INTERFACE 118
124 LINK
NETWORK 120
124
124
REMOTE SITE 122A
REMOTE SITE 122B

FIG. 1

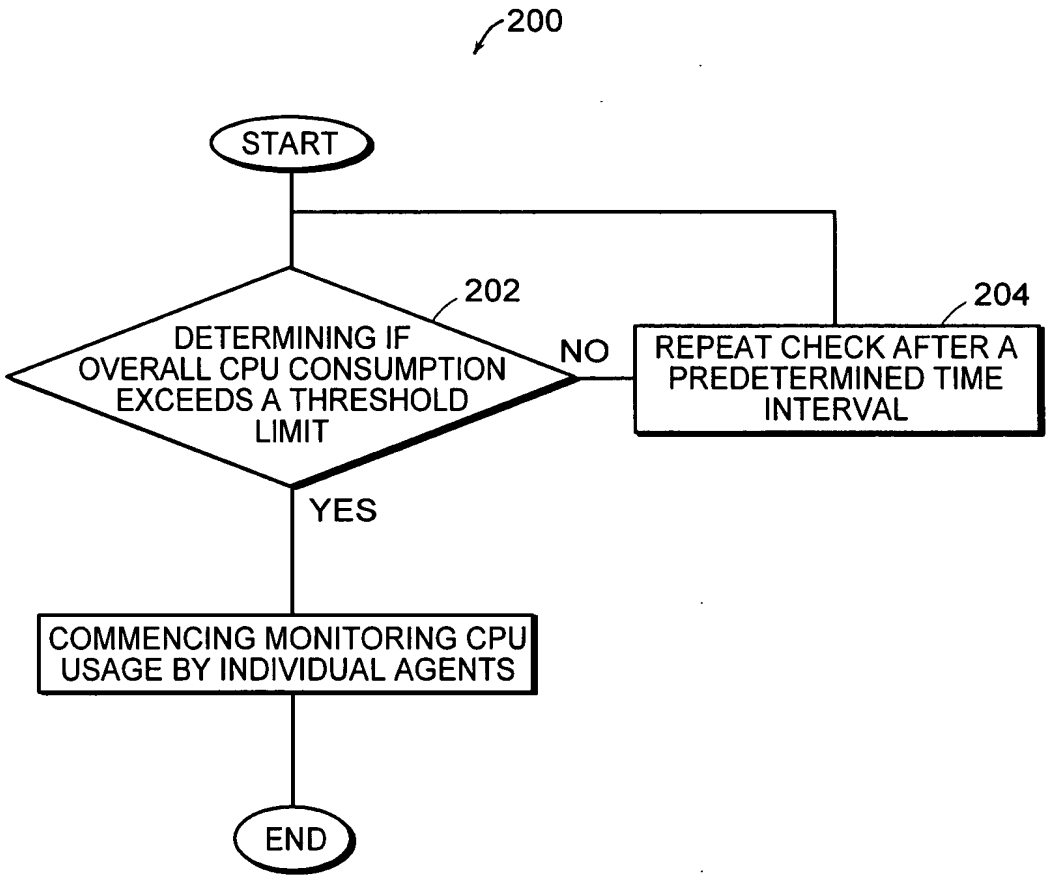
200
START
202
DETERMINING IF OVERALL CPU CONSUMPTION EXCEEDS A THRESHOLD LIMIT
NO
204
REPEAT CHECK AFTER A PREDETERMINED TIME INTERVAL
YES
COMMENCING MONITORING CPU USAGE BY INDIVIDUAL AGENTS
END

FIG. 2

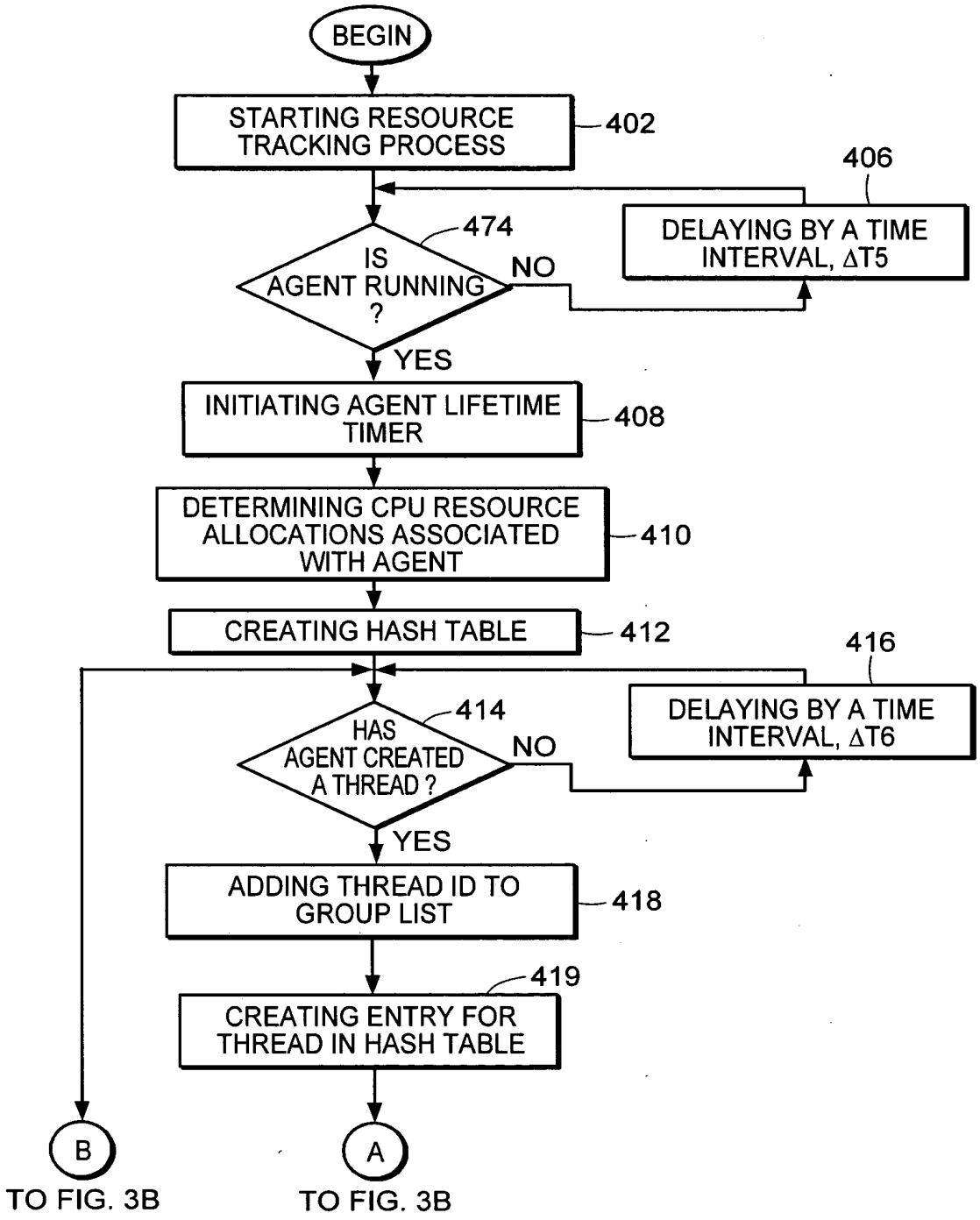
BEGIN
STARTING RESOURCE TRACKING PROCESS
402
406
DELAYING BY A TIME INTERVAL, ΔT5
474
IS AGENT RUNNING ?
NO
YES
INITIATING AGENT LIFETIME TIMER
408
DETERMINING CPU RESOURCE ALLOCATIONS ASSOCIATED WITH AGENT
410
CREATING HASH TABLE
412
416
DELAYING BY A TIME INTERVAL, ΔT6
414
HAS AGENT CREATED A THREAD ?
NO
YES
ADDING THREAD ID TO GROUP LIST
418
419
CREATING ENTRY FOR THREAD IN HASH TABLE
B
TO FIG. 3B
A
TO FIG. 3B

FIG. 3A

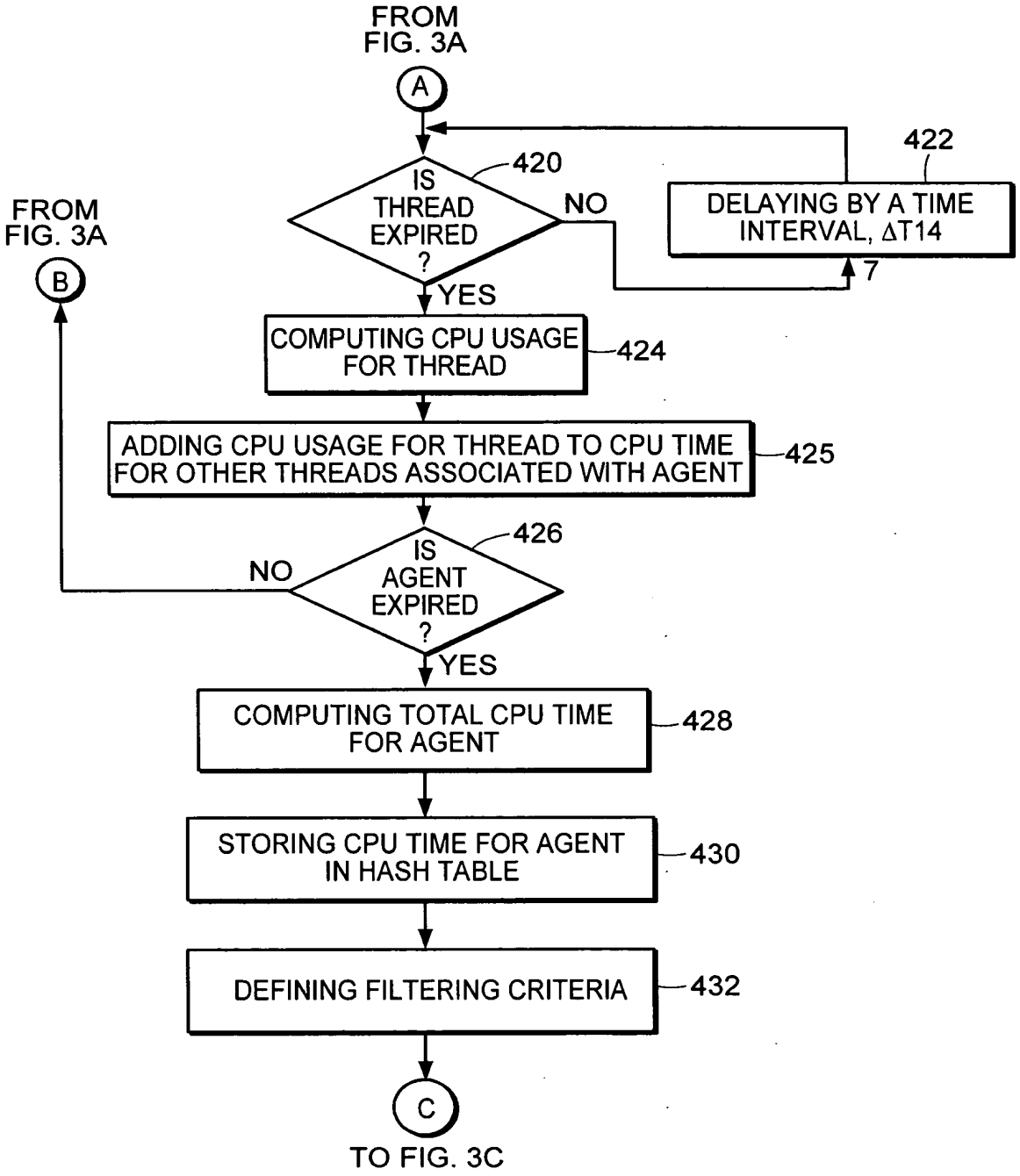
FROM FIG. 3A
A
420
IS THREAD EXPIRED ?
NO
422
DELAYING BY A TIME INTERVAL, ΔT14
7
YES
FROM FIG. 3A
B
COMPUTING CPU USAGE FOR THREAD
424
ADDING CPU USAGE FOR THREAD TO CPU TIME FOR OTHER THREADS ASSOCIATED WITH AGENT
425
426
IS AGENT EXPIRED ?
NO
YES
COMPUTING TOTAL CPU TIME FOR AGENT
428
STORING CPU TIME FOR AGENT IN HASH TABLE
430
DEFINING FILTERING CRITERIA
432
C
TO FIG. 3C

FIG. 3B

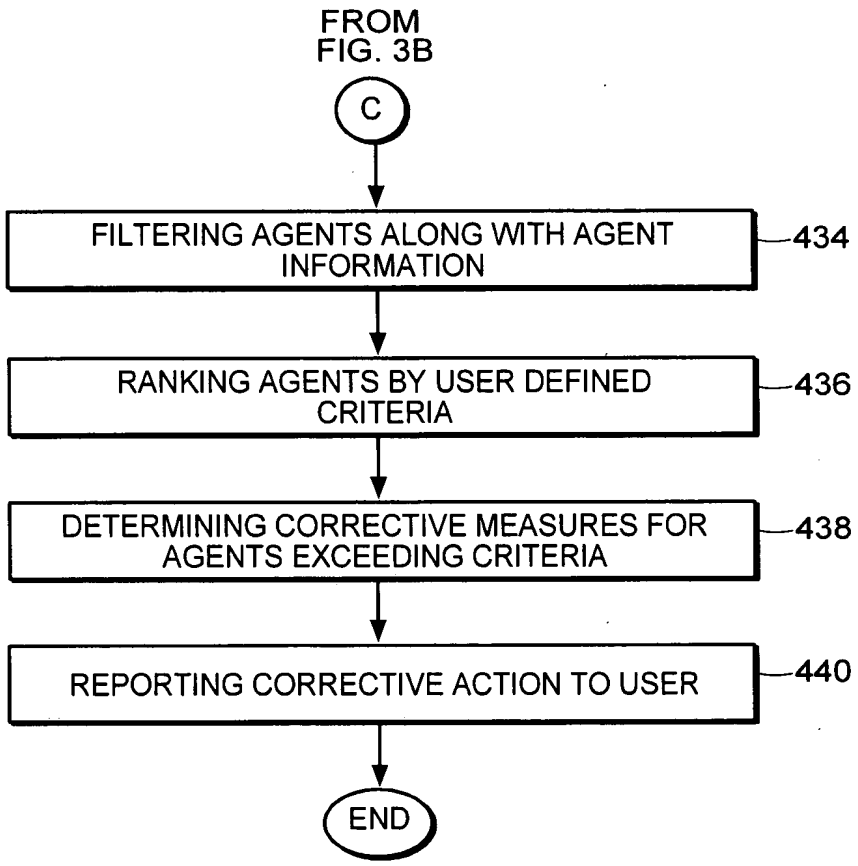
FROM FIG. 3B
C
FILTERING AGENTS ALONG WITH AGENT INFORMATION
434
RANKING AGENTS BY USER DEFINED CRITERIA
436
DETERMINING CORRECTIVE MEASURES FOR AGENTS EXCEEDING CRITERIA
438
REPORTING CORRECTIVE ACTION TO USER
440
END

FIG. 3C

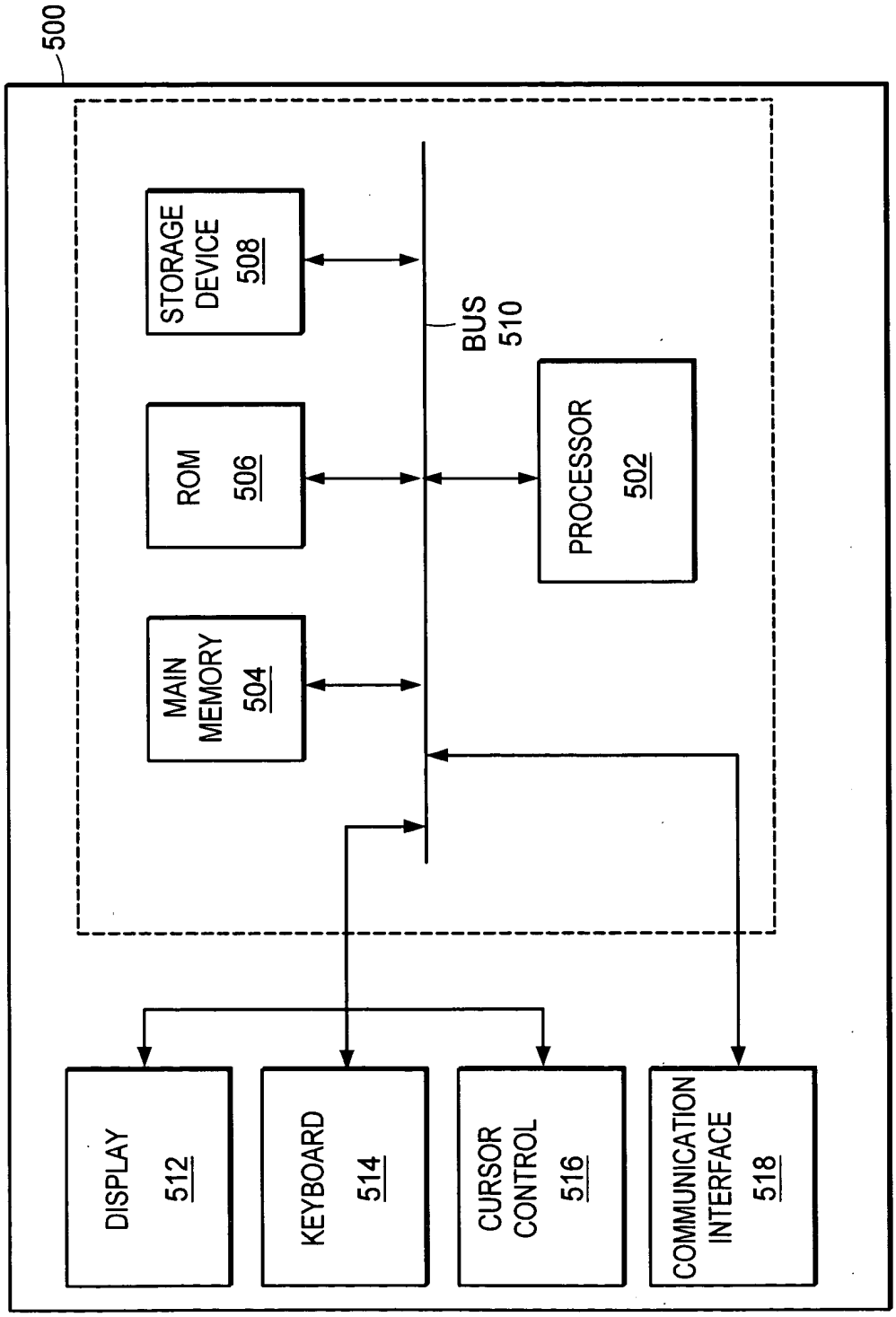
500
STORAGE DEVICE 508
BUS 510
ROM 506
PROCESSOR 502
MAIN MEMORY 504
DISPLAY 512
KEYBOARD 514
CURSOR CONTROL 516
COMMUNICATION INTERFACE 518

FIG. 4

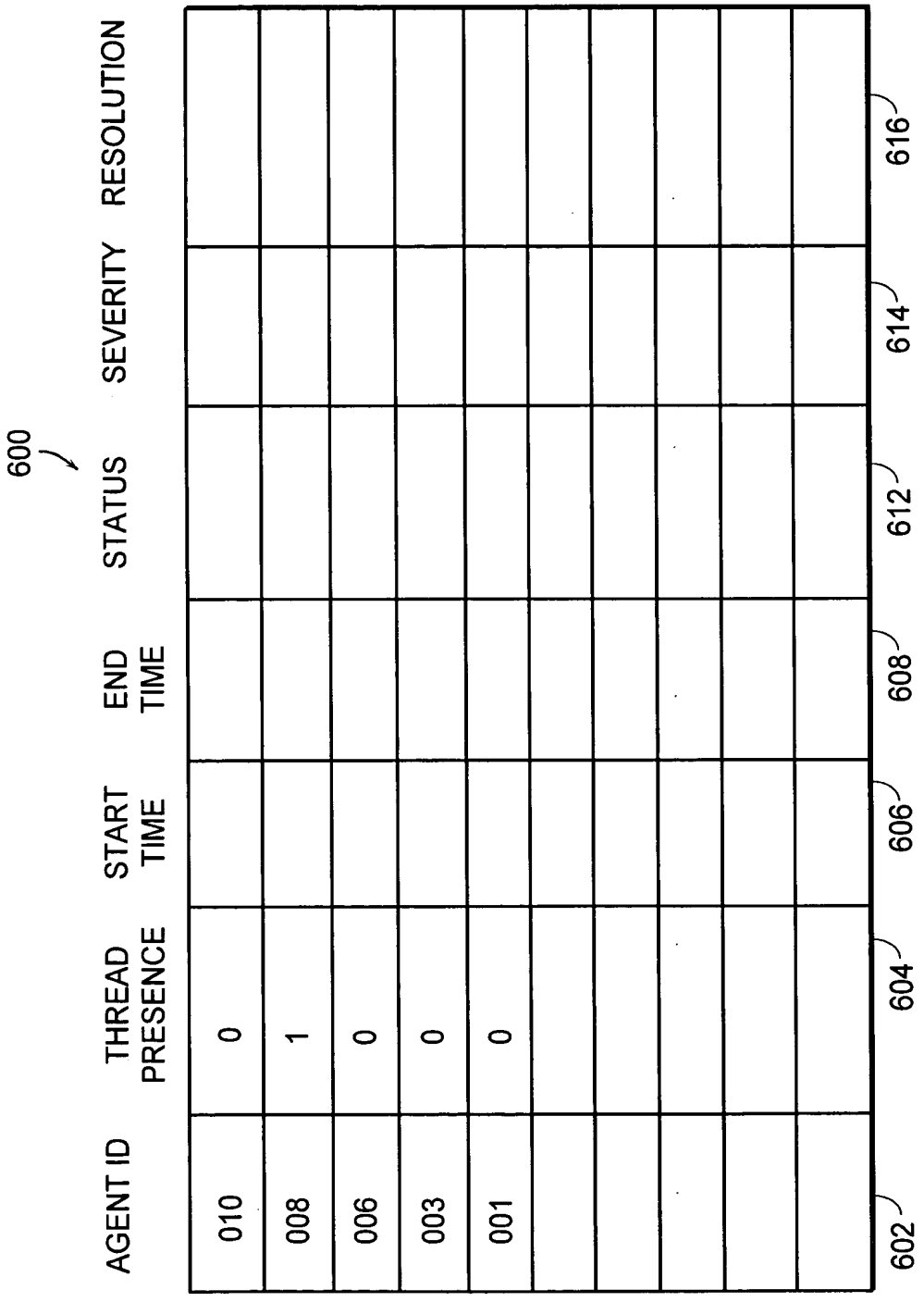
600
AGENT ID
THREAD PRESENCE
START TIME
END TIME
STATUS
SEVERITY
RESOLUTION
010
008
006
003
001
0
1
0
0
0
602
604
606
608
612
614
616

FIG. 5A

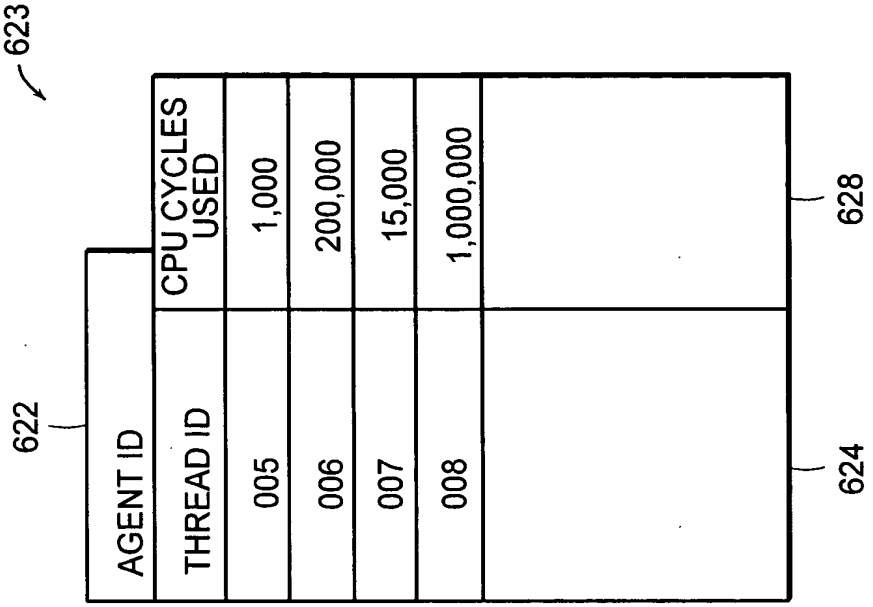
623
622
AGENT ID
THREAD ID
CPU CYCLES USED
005
1,000
006
200,000
007
15,000
008
1,000,000
628
624

FIG. 5C

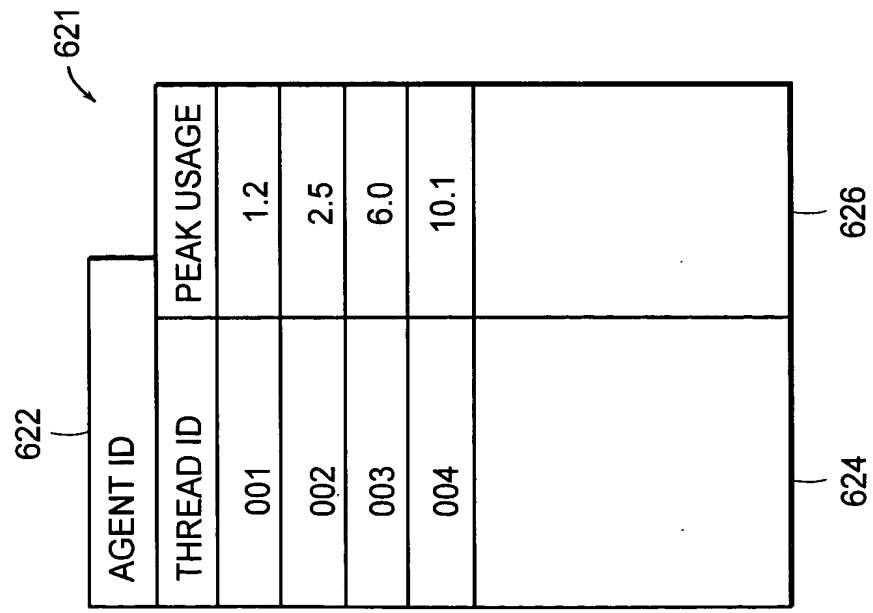
621
622
AGENT ID
THREAD ID
PEAK USAGE
001
1.2
002
2.5
003
6.0
004
10.1
626
624

FIG. 5B

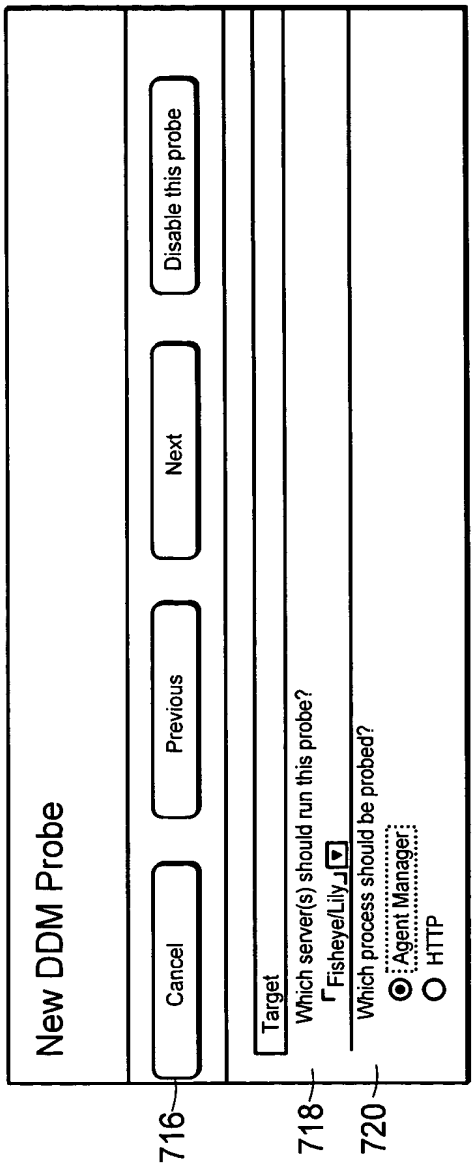
New DDM Probe
Cancel
Previous
Next
Disable this probe
Target
Which server(s) should run this probe?
Fisheye/Lily
Which process should be probed?
Agent Manager
HTTP
716
718
720

FIG. 6A

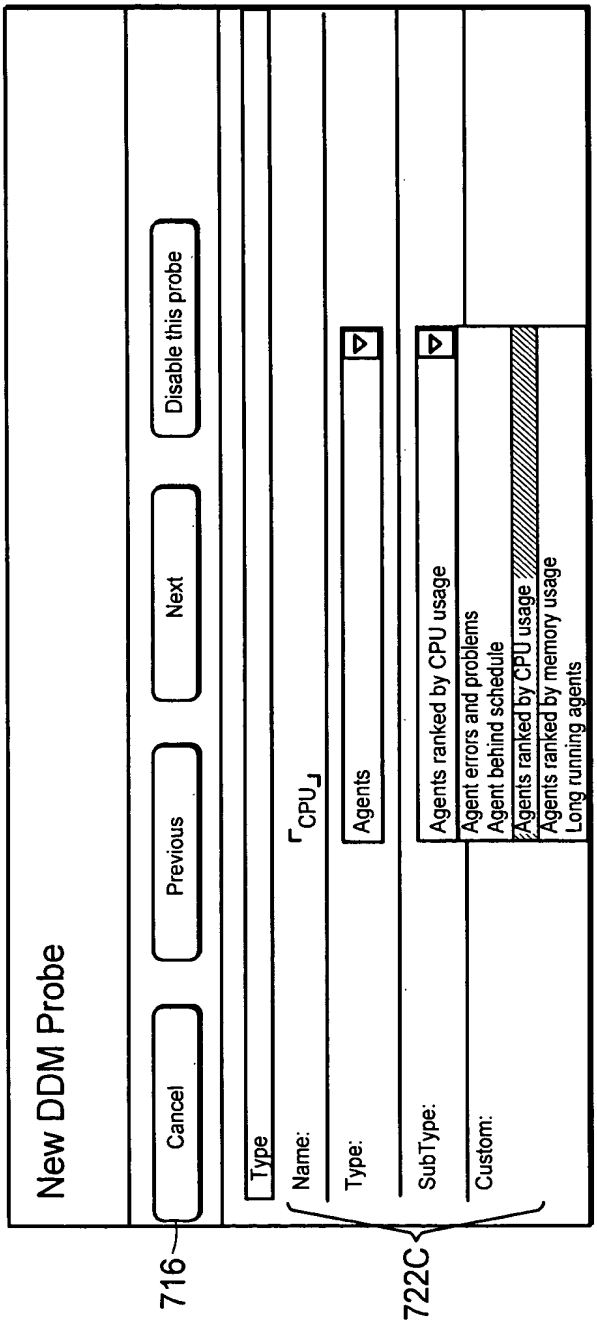
New DDM Probe
Cancel
Previous
Next
Disable this probe
Type
Name:
CPU
Type:
Agents
SubType:
Agents ranked by CPU usage
Agent errors and problems
Agent behind schedule
Agents ranked by CPU usage
Agents ranked by memory usage
Long running agents
Custom:
716
722C

FIG. 6B

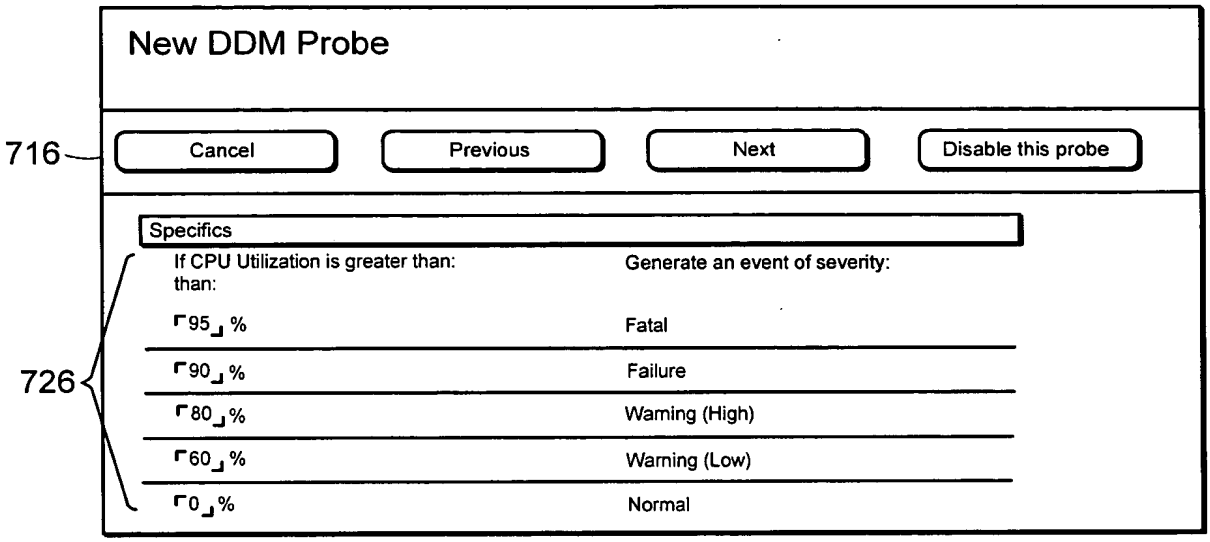
New DDM Probe
716
Cancel
Previous
Next
Disable this probe
Specifics
If CPU Utilization is greater than:
than:
Generate an event of severity:
726
95 %
Fatal
90 %
Failure
80 %
Warning (High)
60 %
Warning (Low)
0 %
Normal

FIG. 6C